



Energy Efficiency Finance in California: A Regulatory Perspective

***Innovations in Energy Efficiency Finance
Conference II***



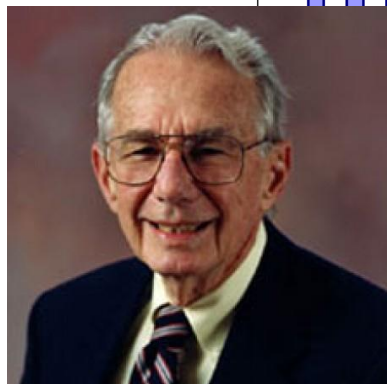
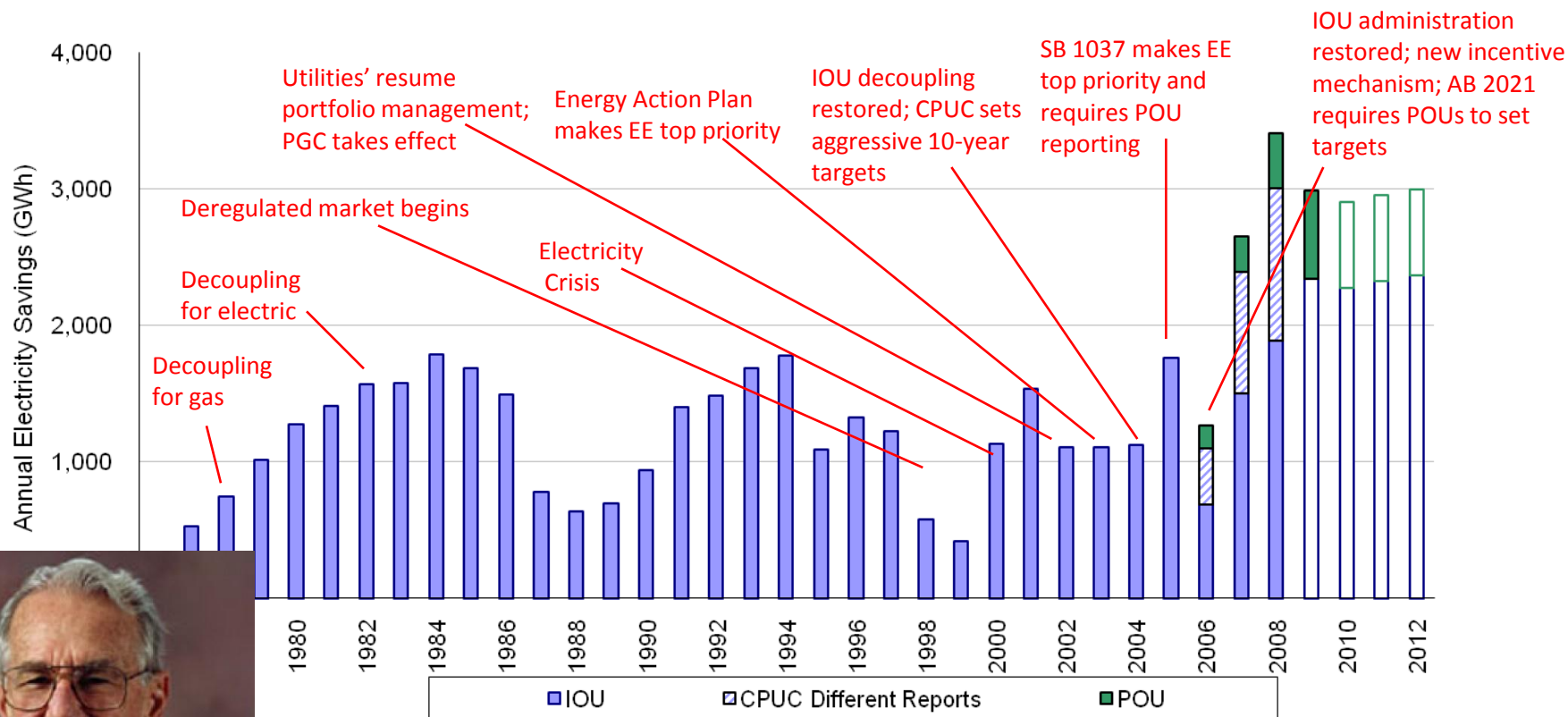
Mark Ferron

California Public Utilities Commission

February 28, 2013



California's History of Energy Efficiency Action



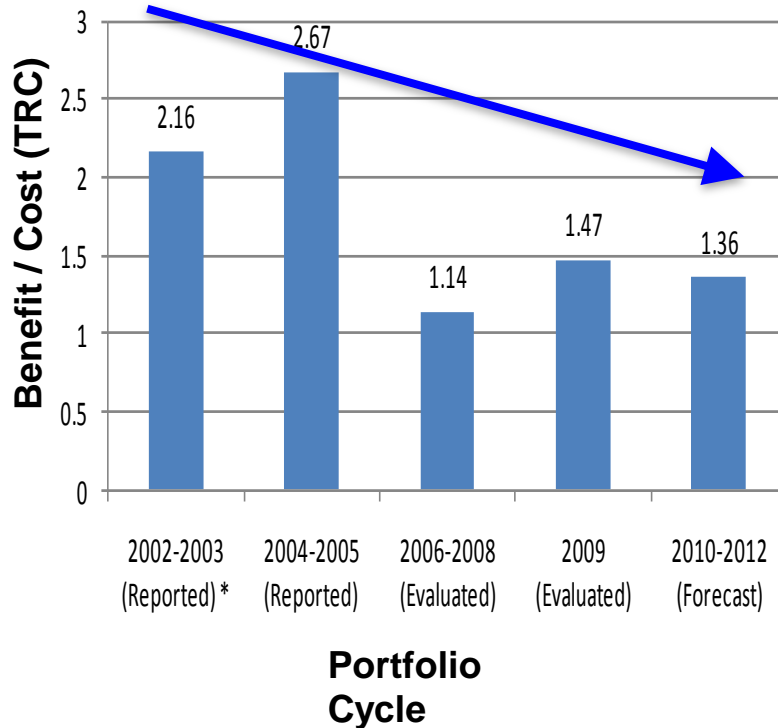
Source: Natural Resources Defense Council (NRDC), as modified by Energy Division 4/25/2011



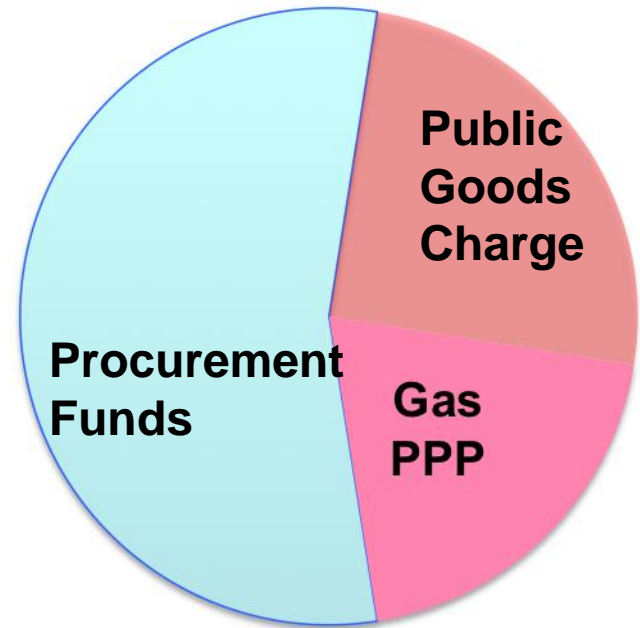


Challenges to California's EE Programs

Declining IOU Portfolio Cost Effectiveness over time

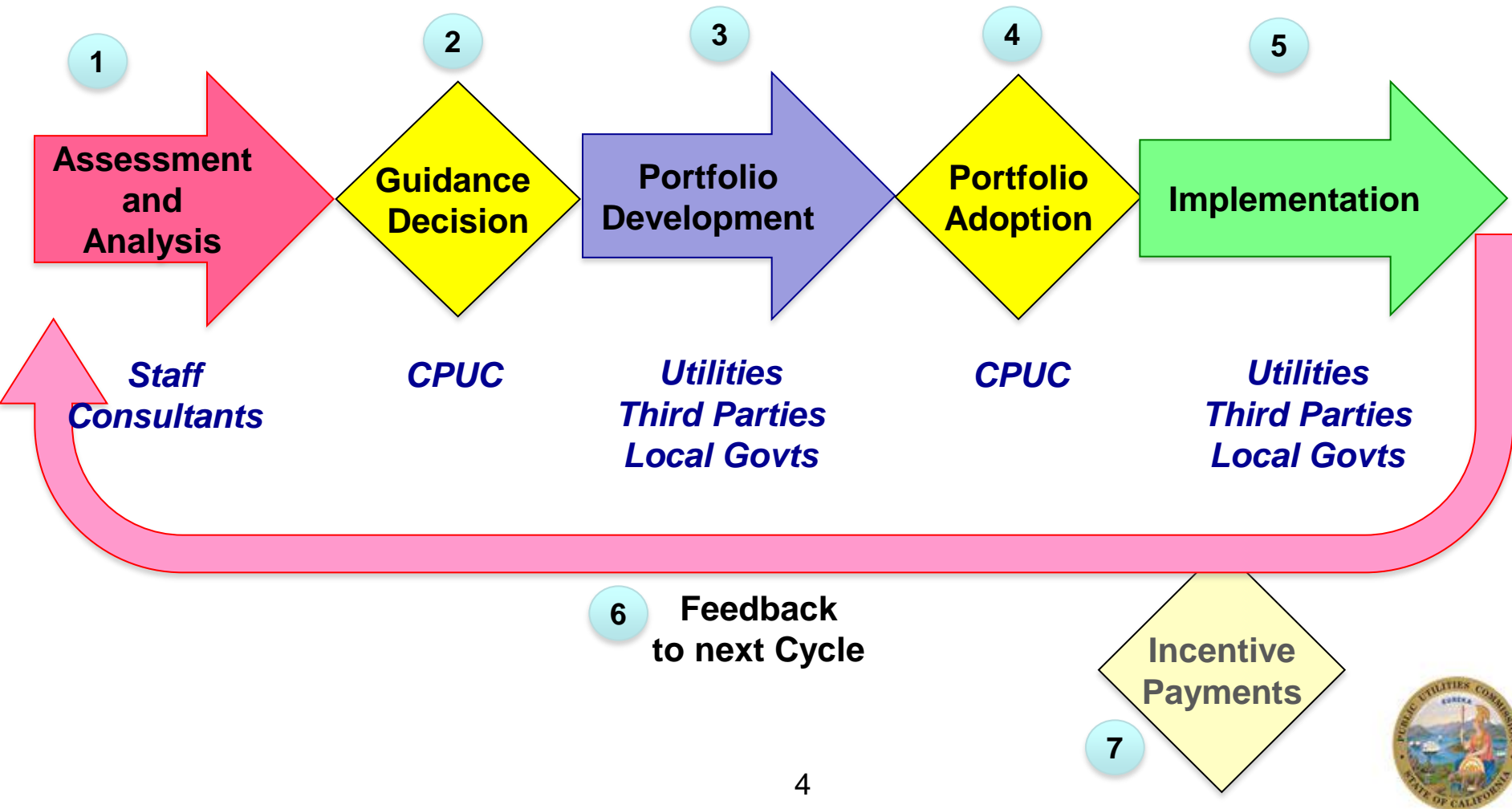


2010-2012 Funding Sources At Risk



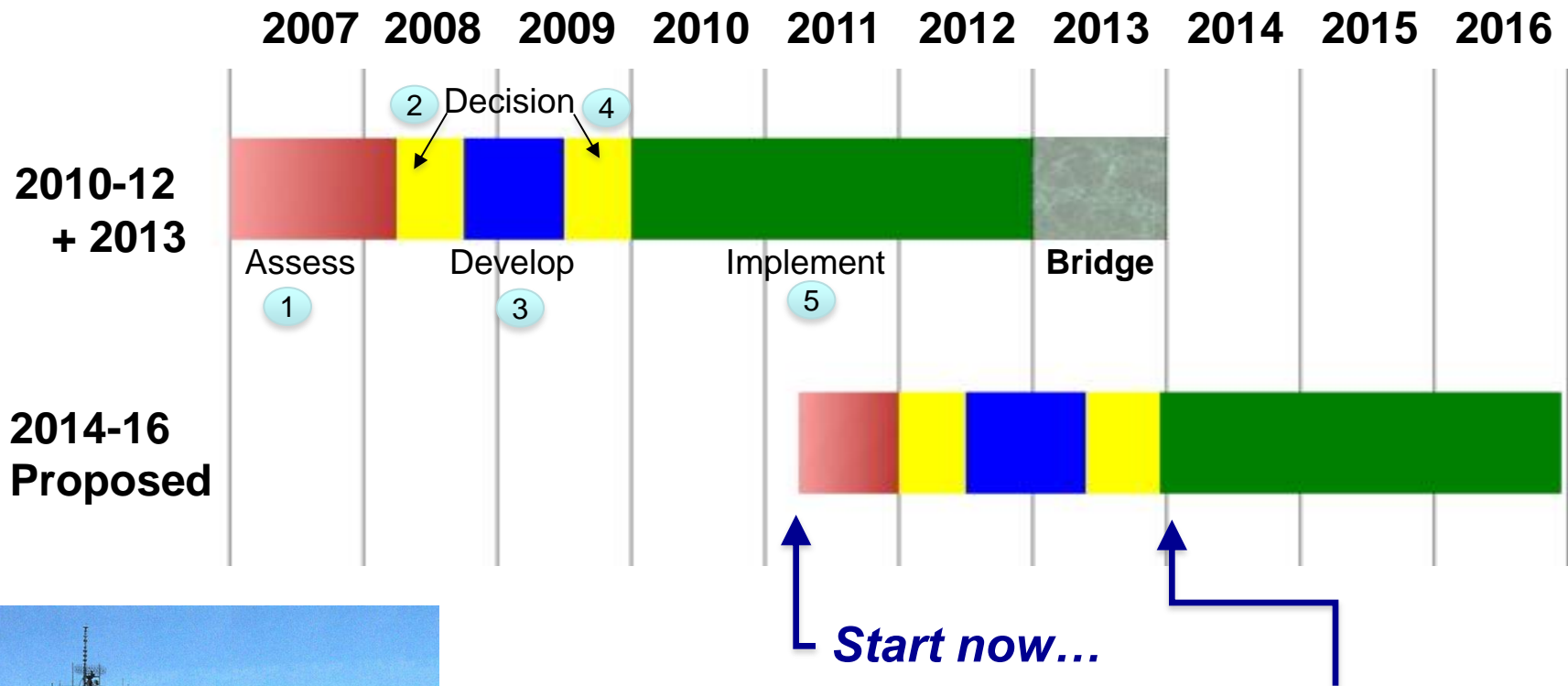


Approval and Implementation Process for CPUC Energy Efficiency Programs





How much can we do and how fast?

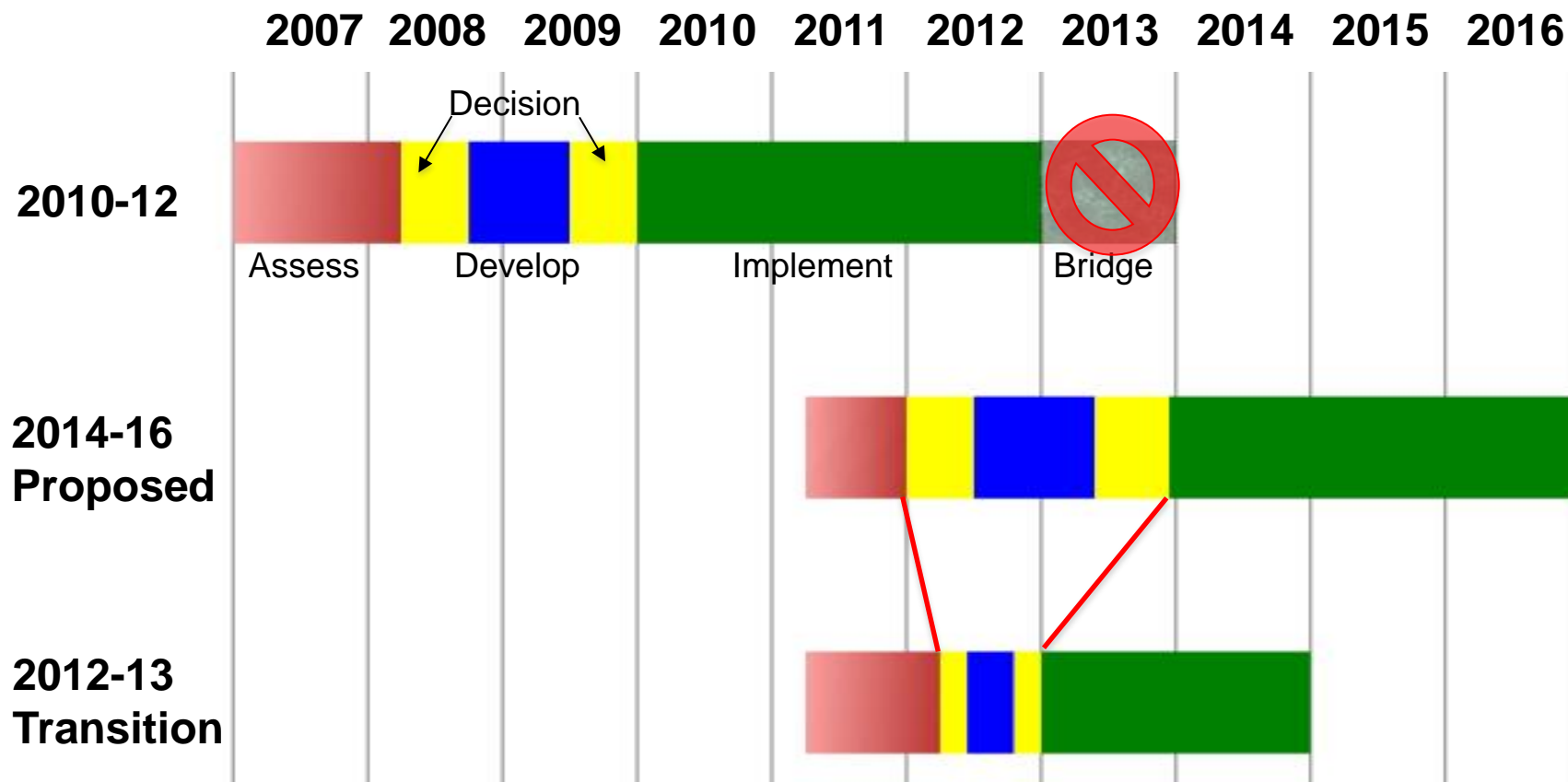


*... but change won't happen
until 3 years from now*





How much can we do and how fast?



*Cut the program cycle in half and
make meaningful change in 2013 (“Transition”)*





2013-2014 Transition Programs: Themes

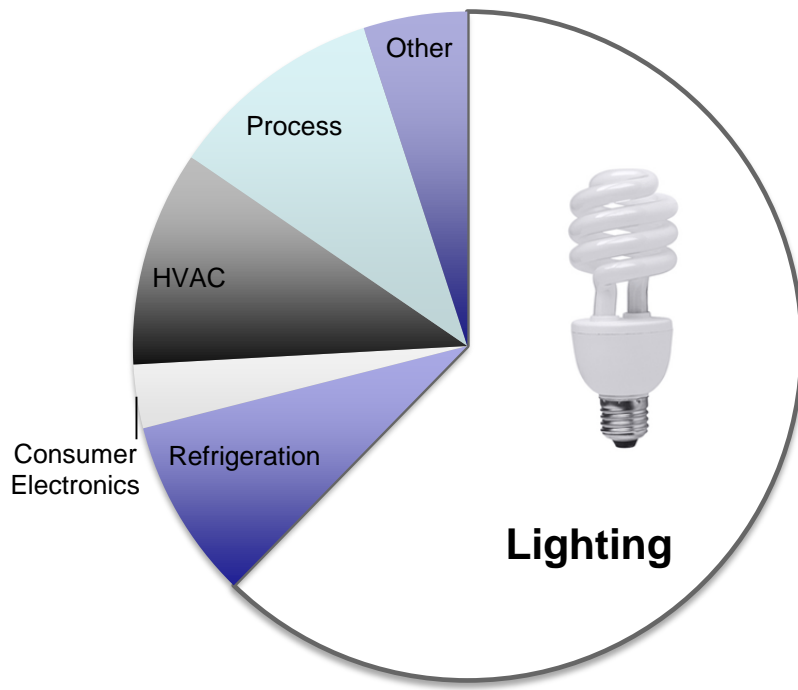
- Expand deep retrofit strategies for existing building stock
- Leverage ratepayer energy efficiency funds with private financing
- Increase the delivery of efficiency programs by third parties and local governments
- Promote an integrated approach to Codes and Standards
- Encourage innovation





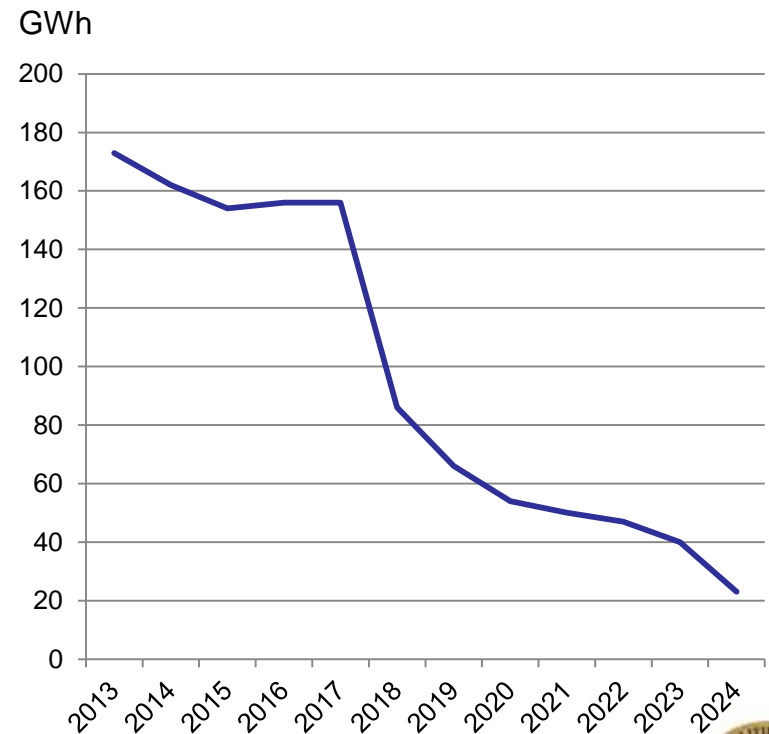
Declining Savings from Lighting...

2010-2012 Electricity Savings by CA Investor Owned Utilities



Source: CPUC, Energy Efficiency Groupware Application (October 2012)

Statewide Market Potential for Residential CFLs



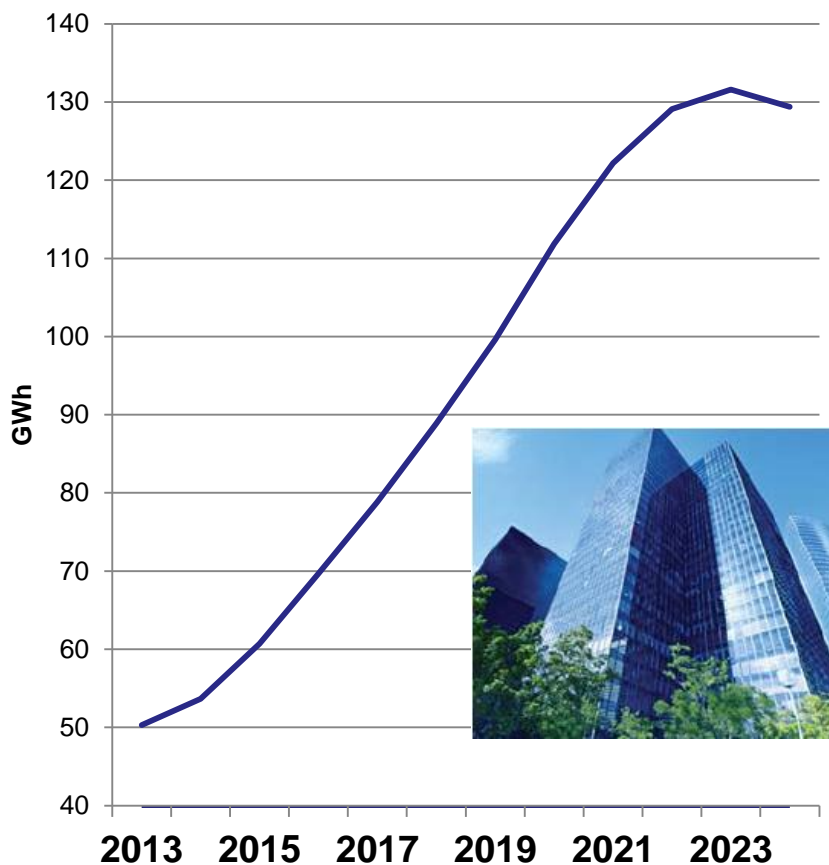
Source: Navigant Consulting, "CPUC Potentials, Goals and Targets Study" (March 2012)



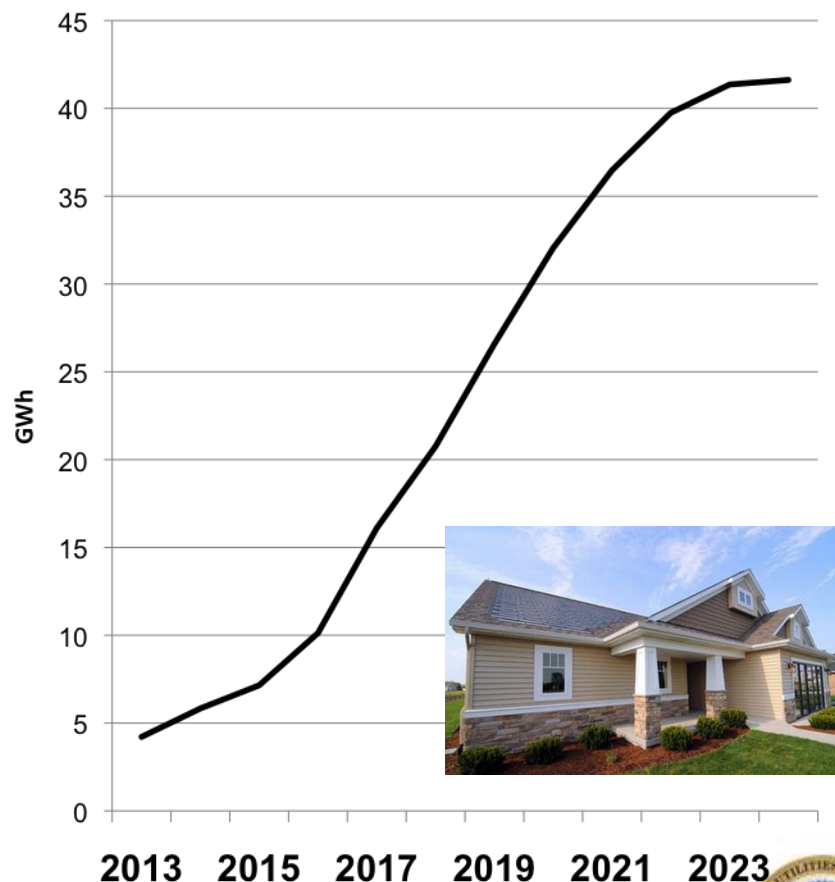


... but Growing Potential Savings in Buildings

Commercial HVAC



Residential HVAC



Source: Navigant Consulting, "CPUC Potentials, Goals and Targets Study" (March 2012)





Commercial Retrofit Programs

- Emphasize a “whole building approach” to commercial retrofits
- Commercial Energy Advisor Program (Audits) including DG, DR opportunities
- Sub-metering and plug load control technology
- Collect and use performance data
- Include programs for municipal, university, schools and hospitals





Residential Retrofit Programs

- Promote statewide brand: “Energy Upgrade California”
- Reduce the number and complexity of program while increasing savings targets
 - Middle Income Direct Install
 - Multi-Family Energy Efficiency Rebates
 - Residential HVAC Programs
 - Behavioral Programs
 - Basic CFL and Advanced Lighting “upstream” cost buy-downs
 - Added focus on hotter climate zones



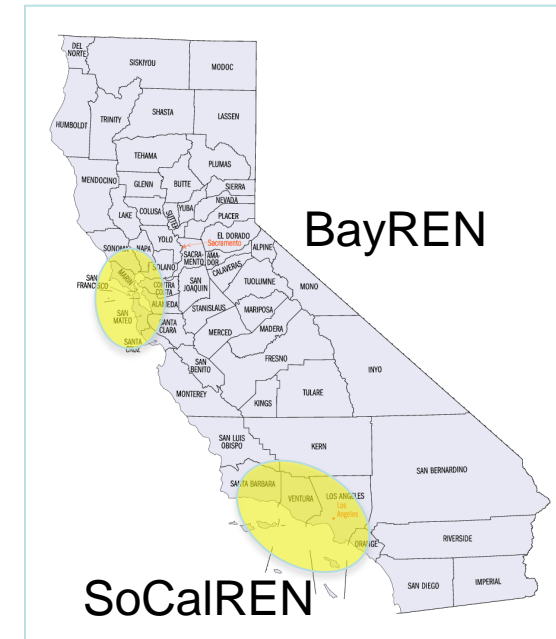
Reduce energy use. Save money. Create jobs.





Regional Energy Networks

- Local Government Administered programs
 - Activities which utilities cannot do, scalability for broader geographic reach, hard to reach markets.
- Act as a laboratory for new ideas and carry on ARRA programs
- Program offerings
 - Energy Upgrade CA
 - Financing
 - Regional Energy Centers
 - Codes & Standards
- Total budget: \$75 million





Leverage ratepayer funds with private capital

Commitment of ~\$200 million over 2 years

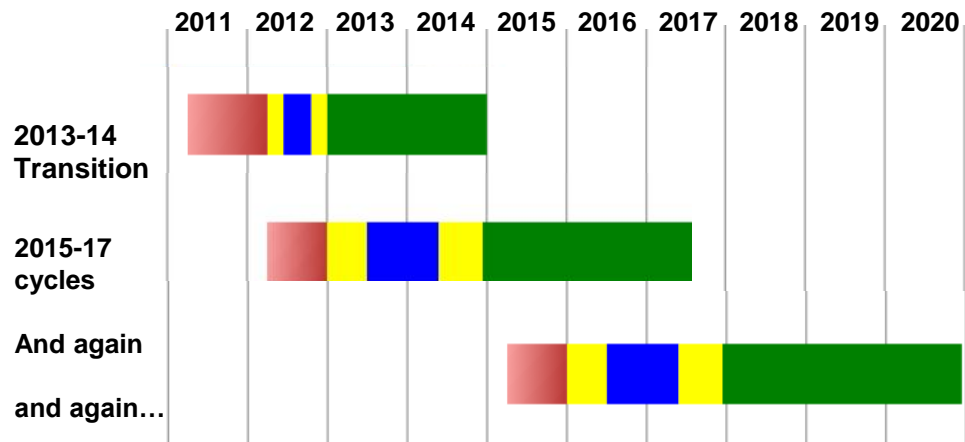
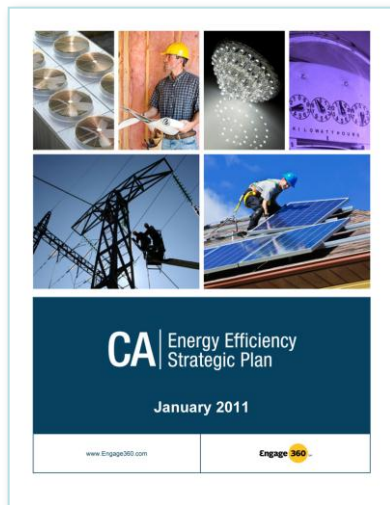
- Expansion of existing On-Bill Financing (OBF) programs
- Continuation of ARRA Programs
- Fast-track financing pilots for launch in 2013 and scale up in 2014
 - Single-family
 - Multi-family
 - Small business
 - On-Bill Repayment (OBR) for non-utility originated loan





What next?

1. What would the pathway look like to scale-up energy efficiency by 2x, 5x, 10x? (e.g. business models, technology, equipment, installation solutions, workforce, consumers, ...)
2. Which few new initiatives or strategies could have the largest impact on mobilizing the “opportunity gap”?
3. Which of these can the private sector solve on its own? Why is this not happening? What could make a difference?
4. Which of these can state &/or local governments mobilize? What specifically needs to be done? Is this sufficient, or are actions needed from others?





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